

Notice of Allowability

Application No.

10/738,542

Examiner

Kuen S. Lu

Applicant(s)

DEWAN ET AL.

Art Unit

2167

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 2/14/2007.
2. ☒ The allowed claim(s) is/are 1-2, 5, 7-20, 22, 25-27 and 31-32 (renumbered to 1-23).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>4/9/2007</u> . |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date <u>5/6/04 & 4/30/04</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

1. This action is responsive to Applicant's Amendment filed February 14, 2007. It is acknowledged that claims 1, 5, 7, 20 and 25 were amended; and claims 3-4, 6, 21 and 23-24 were cancelled.
2. After a thorough search and examination of the present application, and in light of the prior art made of record, Applicant's Amendment and Remarks filed February 14, 2007 and Examiner's amendments made April 13, 2007, Claims 1-2, 5, 7-20, 22, 25-27 and 31-32 (renumbered to 1-23) are allowed.

Examiner's Amendments

3. Authorization for this Examiner's amendment, listed below, was given in telephone interview with inventor, Mr. Michael W. Piper (Registration 39,800) on April 9 and 13, 2007 for amending claims 1-2, 17, 20, 22 and 25-31. The summary of interview conducted on April 9 and 13, 2007 is attached.

- 3.1. Please amend Claims 1-2, 17, 20 and 25-31 as follow:

1. (Currently Amended) A naming service, operating on at least one computer within a network of computers, for locating a service in an enterprise, comprising:

- a first module ~~operable to maintain~~ maintaining a location of an interface, the interface having a reference to a service; and

- a second module ~~operable to provide~~ providing the location of the interface to an application in response to receiving a request from the application for the location of the service;

wherein the naming service provides service location transparency such that the location of the service can be changed without ~~effecting~~ affecting the behavior of the application;

wherein the service is further defined as a service object;

wherein the service object is further defined as a JAVA service object and

wherein the interface is further defined as a JAVA directory and naming interface;

and

wherein the first module is further ~~operable to maintain~~ maintains a second location associated with a second service,

the second module further ~~operable to provide~~ providing the second location to a second application in response to receiving a request for the second service from the second application, and

the second application operating on at least one computer within a network of computers using the second location to use the service.

2. (Currently Amended) The naming service of Claim 1, wherein the application uses the interface to invoke the service ~~is operable, using the location of the interface, to the service using the interface.~~

17. (Currently Amended) The naming service of Claim 1, further including a third module ~~operable to store~~ which stores a service status information related to the service, the third module ~~operable to search and return~~ searching and returning the

service status information related to the service in response to a request.

20. (Currently Amended) An enterprise naming service, operating on at least one computer within a network of computers, for applications to locate services, comprising:

a binding module to associate a first service with a location of an interface maintaining a reference to the first service, the binding module further ~~operable to associate~~ associating a second service with a location of an interface maintaining a reference to the second service; and

a look-up module operating on at least one computer within a network of computers ~~operable to provide~~ providing the location of the interface of the first service to a first application in response to a request by the first application for the first service,

wherein the look-up module further ~~operable to provide~~ providing the location of the interface of the second service in response to a request by a second application for the second service;

wherein the enterprise naming service provides service location transparency such that the location of a service can be changed without ~~effecting~~ affecting the behavior of an application;

wherein the first service is a service object and the second service is a Common Object Request Broker Architecture object;

further comprising a name service browser module operating on at least one computer within a network of computers ~~operable to maintain~~ maintaining a service status information related to one of the first and second services, the name service browser ~~operable to~~

~~search and return~~ searching and returning the service status information of one of the first and second services in response to a request;

wherein the binding module is further ~~operable to maintain~~ maintains a version identifier associated with at least one of the first and second service, and wherein a plurality of versions of at least one of the first and second services are maintained.

25. (Currently Amended) The enterprise naming service of Claim-2-4 20, wherein the look-up module is further ~~operable to return~~ returns the location associated to a first version of the first service.

26. (Currently Amended) The enterprise naming service of Claim 25, wherein the look-up module is further ~~operable to return~~ returns the location associated to a first version of the second service.

27. (Currently Amended) A computer-implemented method for locating a service in an enterprise, comprising:

associating a service with a location with an interface maintaining a reference to a service;

requesting, by an application desiring to employ the service, the location of the service;

and

returning the location of the interface to the application;

using the location to promote communication between the application and the interface;

the application requesting the service from the interface; and

the application using the service implemented on at least one computer;

wherein the application uses a service identifier to request the location of the service;

wherein the service is further defined as an Enterprise JAVA Bean and the interface is further defined as a JAVA Naming Directory Interface; and

wherein the method provides service location transparency such that the location of the service can be changed without effecting affecting the behavior of the application.

28. (Canceled)

29. (Canceled)

30. (Canceled)

31. (Previously Presented) The method of Claim ~~30~~ 27, wherein ~~the interface is defined as a JAVA Naming Directory Interface and the service is an Enterprise JAVA Bean~~, the method further comprising associating an identifier, a version and a second location with a Common Object Request Broker Architecture object.

Reasons For Allowance

4. The following is an examiner's statement of reasons for allowance:

In the Examiner's Office Action for non-Final Rejection of December 27, 2006, 35 U.S.C. § 103, rejections to claims 1-32 as being unpatentable was made over Christof Dallermassl: Aspects of Integration of Heterogeneous Server Systems in Intranets – the JAVA Approach, Graz University of Technology, Graz, November 1999, hereafter "Dallermassl"; and in view of Goodman et al.: "ARCHTECTURES FOR NETCENTRIC COMPUTING SYSTEMS", U.S. Patent 7,020,697, issued 3/28/2006, hereafter "Goodman".

In the Remarks filed on February 14, 2007, concerning independent claims 1, 20 and 27, Applicant agreed to amend by incorporating subject matter from independent claims in order to overcome teaching of Dallermassl and Goodman references.

After further consideration of Applicant's amendments made to the claims, and Examiner's Amendment made to claims 1, 20 and 27, Examiner is persuaded that the mostly recently amended claims, which include the below highlighted subject matter as described in each independent claims 1, 20 and 27, have overcome the teaching of the cited Dallermassl and Goodman references.

An updated search for the prior arts on EAST database and on domains (NPL-ACM, Google, NPL-IEEE) has been conducted. The prior arts searched and investigated in the database and domains does not fairly teach or suggest the teaching of the newly amended

claimed subject matter as combined and described in each of the independent claims 1, 20 and 27.

The dependent claim(s) in the groups (2, 5 and 7-19), (25-26) and (31-32), depending directly or indirectly upon claims 1, 20 and 27, respectively, are also distinct from the prior art for the same reason.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

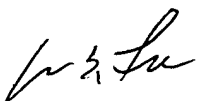
6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kuen S. Lu whose telephone number is (571) 272-4114. The examiner can normally be reached on Monday-Friday (8:00 am-5:00 pm). If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, John Cottingham can be reached on (571) 272-7079. The fax phone number for the organization where this application or proceeding is assigned is 703-305-3900.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for Page 13 published applications may be obtained from either Private PAIR or Public PAIR.

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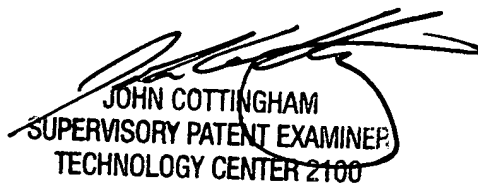
Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 703-305-3900 (toll free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, please call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kuen S. Lu,



Patent Examiner, Art Unit 2167

April 13, 2007



JOHN COTTINGHAM
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